



June 16, 2000



Assistant Commissioner for Patents
Washington, DC 20231

Box SEQ
RECEIVED

JUN 19 2000

TECH CENTER 1600/2900

GP 1613 WD
1299 PENNSYLVANIA AVE., NW
WASHINGTON, DC 20004-2402
PHONE 202.783.0800
FAX 202.383.6610
A LIMITED LIABILITY PARTNERSHIP

RECEIVED

JUN 21 2000

Art Unit: 1613
Examiner: Y. Kim

Re: U.S. Utility Application No. 09/233,218
Filed: January 20, 1999
For: Nucleic Acid Molecules and Other Molecules
Associated with the Tetrapyrrole Pathway
Inventors: Claire A. CAJACOB *et al.*
Atty. Docket: 04983.0025.00US01/38-21(15090)B

Sir:

Transmitted herewith for appropriate action by the U.S. Patent and Trademark Office (PTO) are the following documents:

1. Response to Restriction Requirement;
2. Response to Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures;
3. Copy of Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures;
4. Substitute computer-readable (diskette) copy of Sequence Listing;
5. Substitute paper copy of Sequence Listing (234 pages);
6. Statement Regarding Sequence Submission; and
7. Return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3038. A duplicate copy of this letter is enclosed.

Sincerely,

David R. Marsh (Reg. No. 41,408)
June E. Cohan (Reg. No. 43,741)

Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

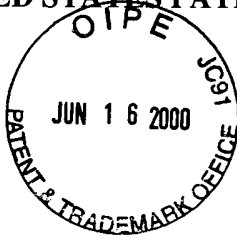
In re application of:

Claire A. CAJACOB *et al.*

Appln. No.: 09/233,218

Filed: January 20, 1999

For: Nucleic Acid Molecules and Other
Molecules Associated with the
Tetrapyrrole Pathway



Art Unit: 1631

Examiner: Y. Kim

Atty. Docket: 04983.0025.00US01/
38-21(15090)B

#8/A
Plunk
7/3/00

**Response to Notice to Comply with Requirements for Patent Applications
Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures**

BOX SEQUENCE

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

In response to the Notice to Comply with Requirements for Patent Applications
Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures mailed on May 18,
2000, Applicants hereby request entry of the accompanying substitute Sequence Listing in the
above-mentioned application.

Also enclosed is a computer-readable substitute Sequence Listing, a paper copy of the
substitute Sequence Listing, and a statement that the sequences contained therein are the same
and contain no new matter.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "David R. Marsh".

David R. Marsh (Reg. No. 41,408)
June E. Cohan (Reg. No. 43,741)

Date: June 16, 2000

HOWREY SIMON ARNOLD & WHITE, LLP
Box No. 34
1299 Pennsylvania Avenue, N.W.
Washington, D.C. 20004-2402
(202) 783-0800